

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A projection system having comprising:

\_\_\_\_\_ a projection display ~~(20)~~;;  
\_\_\_\_\_ at least one light source ~~(40)~~; and  
\_\_\_\_\_ a sensor means for sensing and compensating for changes in the luminous flux emitted by the at least one light source ~~(40)~~, wherein light emitted from the at least one light source comprises a first and a second spatial component which impinge on an entering face of an optical component of the projection system and a third spatial component which is directed into a region immediately surrounding the entering face, and wherein the sensor which means has comprises at least one sensor arrangement ~~(30; 31, 32; 33, 34)~~ for sensing ~~components (M)~~ the third spatial component of the light from the light source ~~(40)~~ that ~~are~~ is directed into ~~[[a]]~~ the region immediately surrounding ~~[[an]]~~ the entering face of ~~[[an]]~~ the optical component ~~(44)~~ of the projection system.

2. (Currently Amended) A projection system as claimed in claim 1, wherein further comprising a driver means ~~(20a)~~ for driving the projection display ~~(20)~~ can be, wherein the driver means is controlled by the sensor arrangement ~~(30; 31, 32; 33, 34)~~ to compensate for fluctuations in the luminous flux.

3. (Currently Amended) A projection system as claimed in claim 1, wherein further comprising a power supply unit ~~(40c)~~ of the at least one light source ~~(40)~~ can be, wherein the power supply unit is controlled by the sensor arrangement ~~(30; 31, 32; 33, 34)~~ to compensate for the fluctuations in the luminous flux.

4. (Currently Amended) A projection system as claimed in claim 1, wherein the sensor arrangement ~~is formed by~~ comprises a plurality of sensors ~~(30) that are arranged proximate the entering face and~~ along the circumference of the optical component ~~(44) and wherein the plurality of sensors~~ are directed at the light source ~~(40)~~.

5. (Currently Amended) A projection system as claimed in claim 1, wherein the sensor arrangement ~~is formed by~~ comprises an optical waveguide structure ~~(34)~~, proximate to and surrounding the entering face of the optical component ~~(44)~~, to couple in incident light corresponding to the third spatial component of light from the light source (10), and at least one sensor ~~(32)~~ to sense the third spatial component of light that is coupled in.

6. (Currently Amended) A projection system as claimed in claim 1, wherein the sensor arrangement ~~is formed by~~ comprises a surface ~~(33)~~, proximate to and surrounding the entering face of the optical component ~~(44)~~, to scatter incident light corresponding to the third spatial component of light coming from the light source ~~(40)~~, and a sensor ~~(34)~~ to sense the third spatial component of light that is scattered.

7. (Currently Amended) A projection system as claimed in claim 6, wherein further the sensor ~~(34)~~ is arranged substantially next to the light source ~~(40)~~ in a direction perpendicular to the direction of propagation of the light produced by the light source ~~(40)~~.

8. (Currently Amended) A projection system as claimed in claim 1, wherein the optical component is comprises a rod integrator ~~(44)~~ for homogenizing the first and second spatial components of light produced by the light source ~~(40)~~ which impinge on the entering face of the optical component.

9. (Currently Amended) A projection system as claimed in claim 1, having further comprising a color display for sequential color representation and, as a light source ~~(10)~~, at least one high-pressure gas-discharge lamp operated by alternating current.